

Figure 1

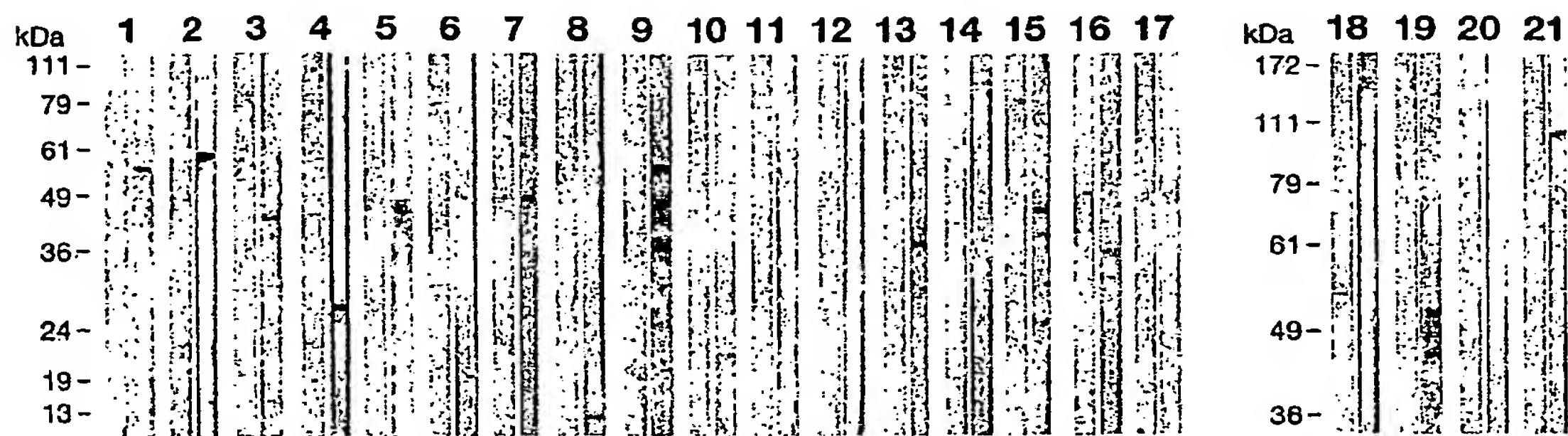


Figure 2

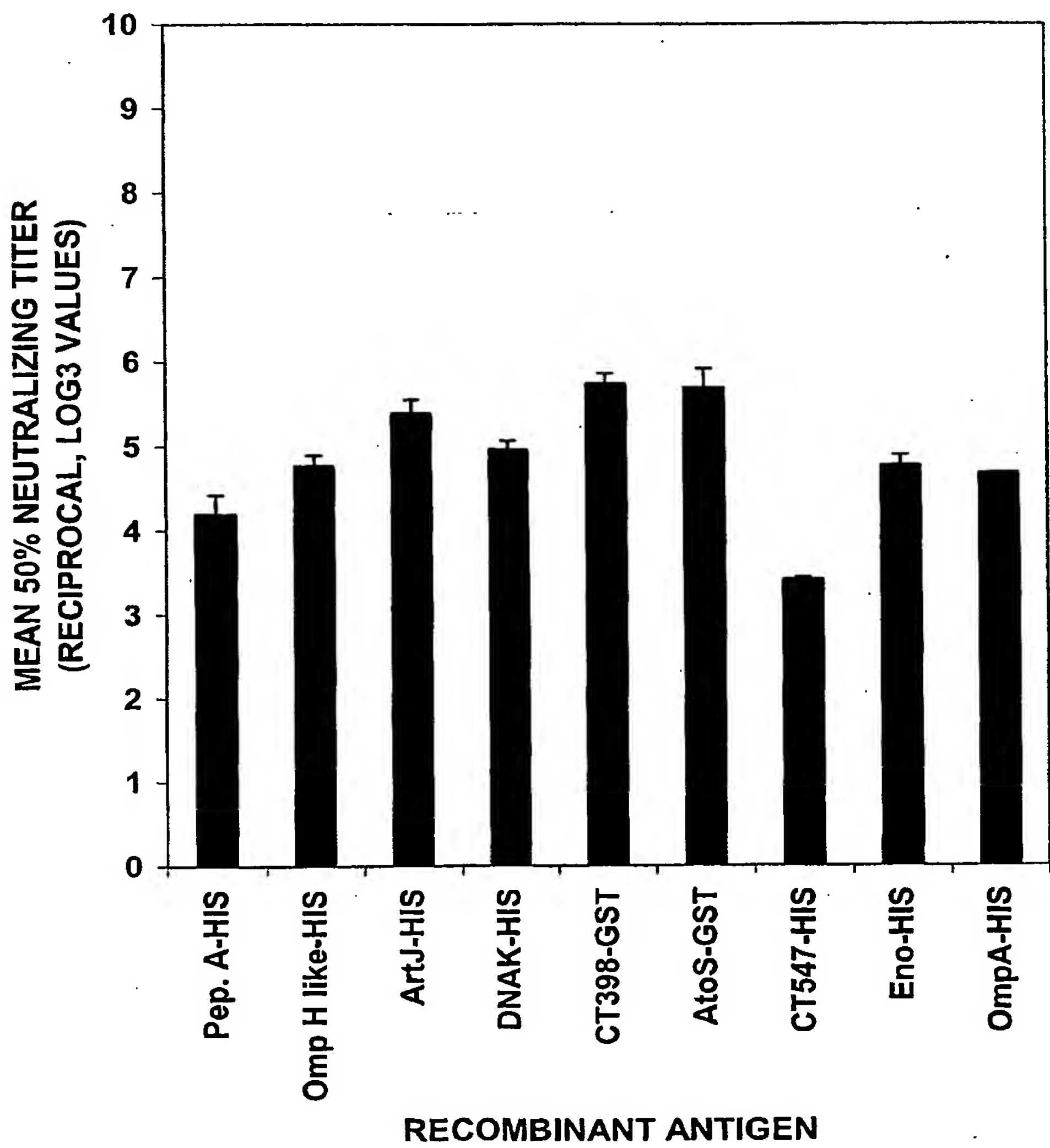


Figure 3

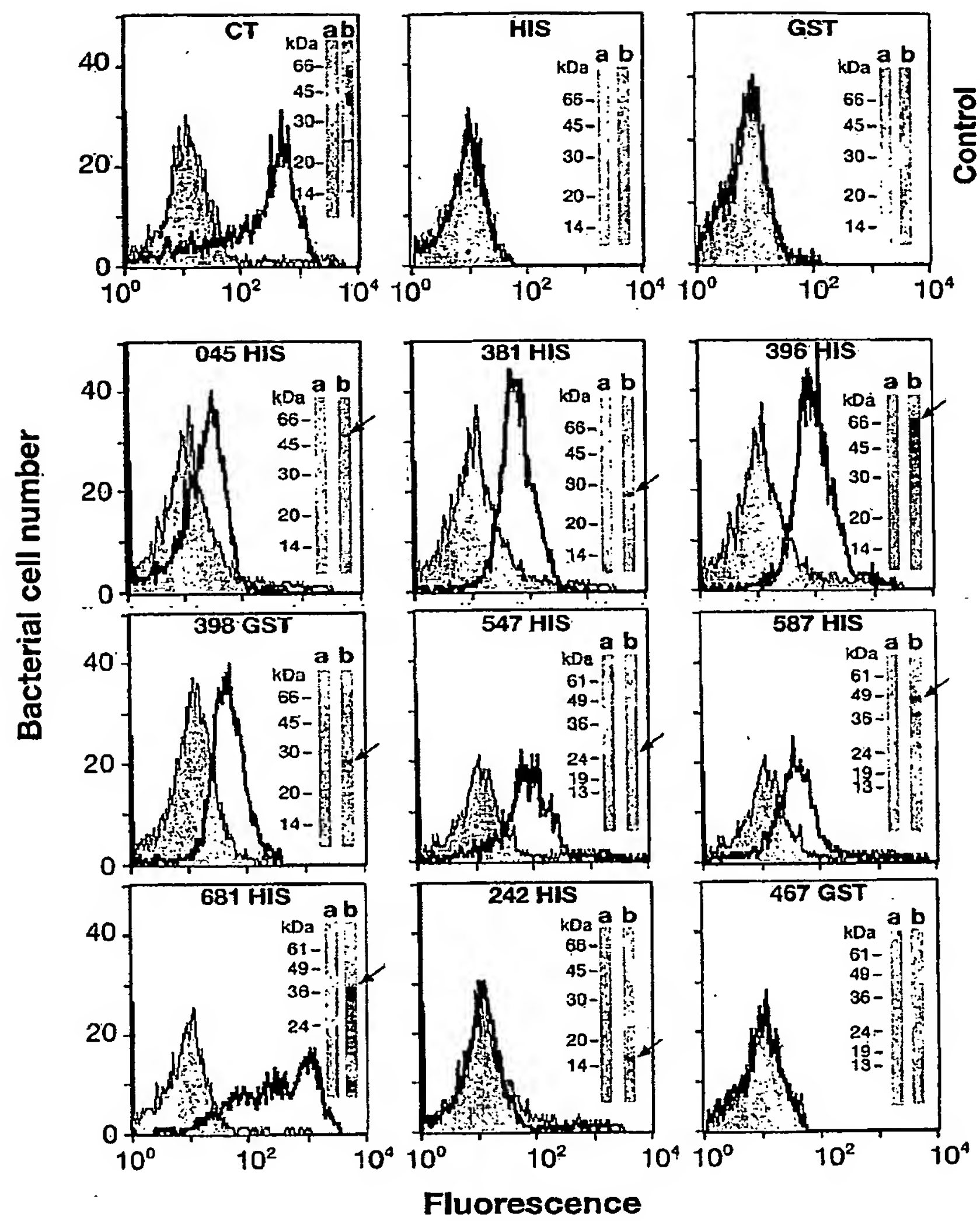


Figure 4

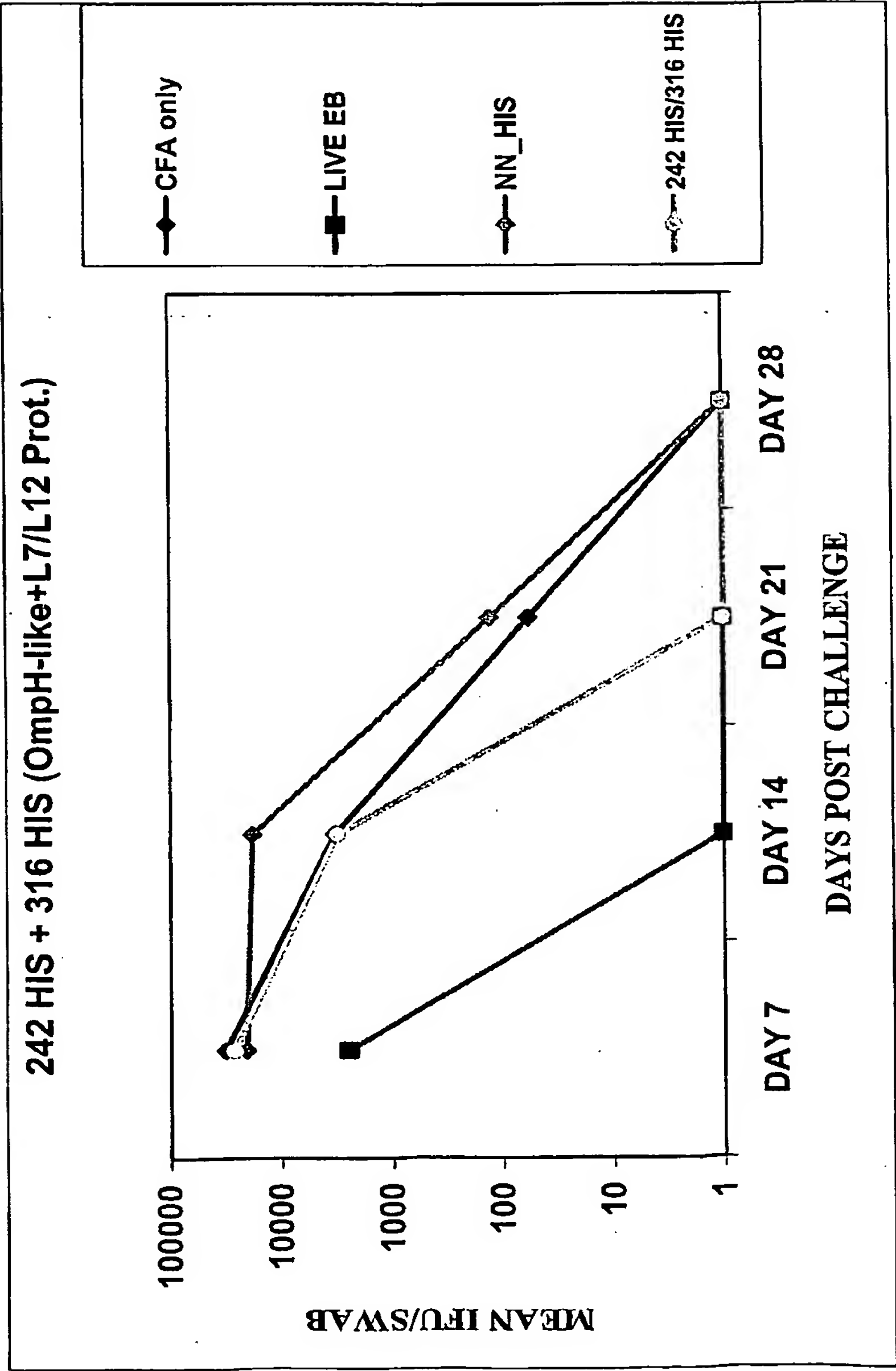


Figure 5

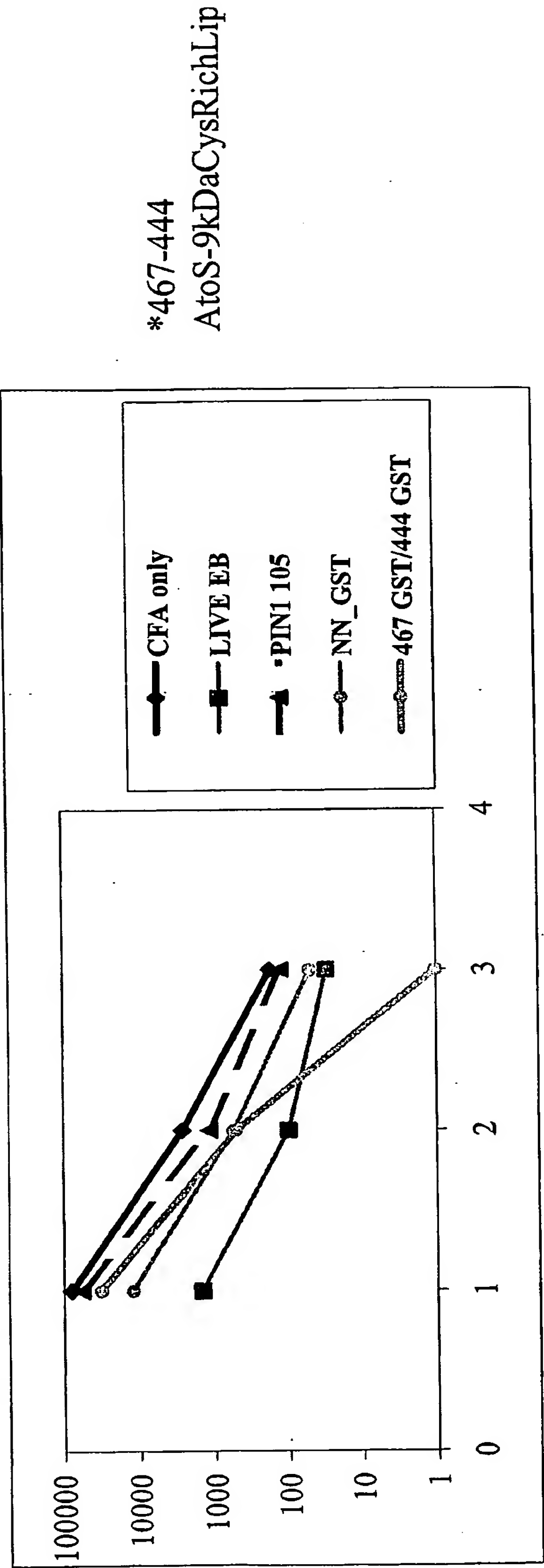
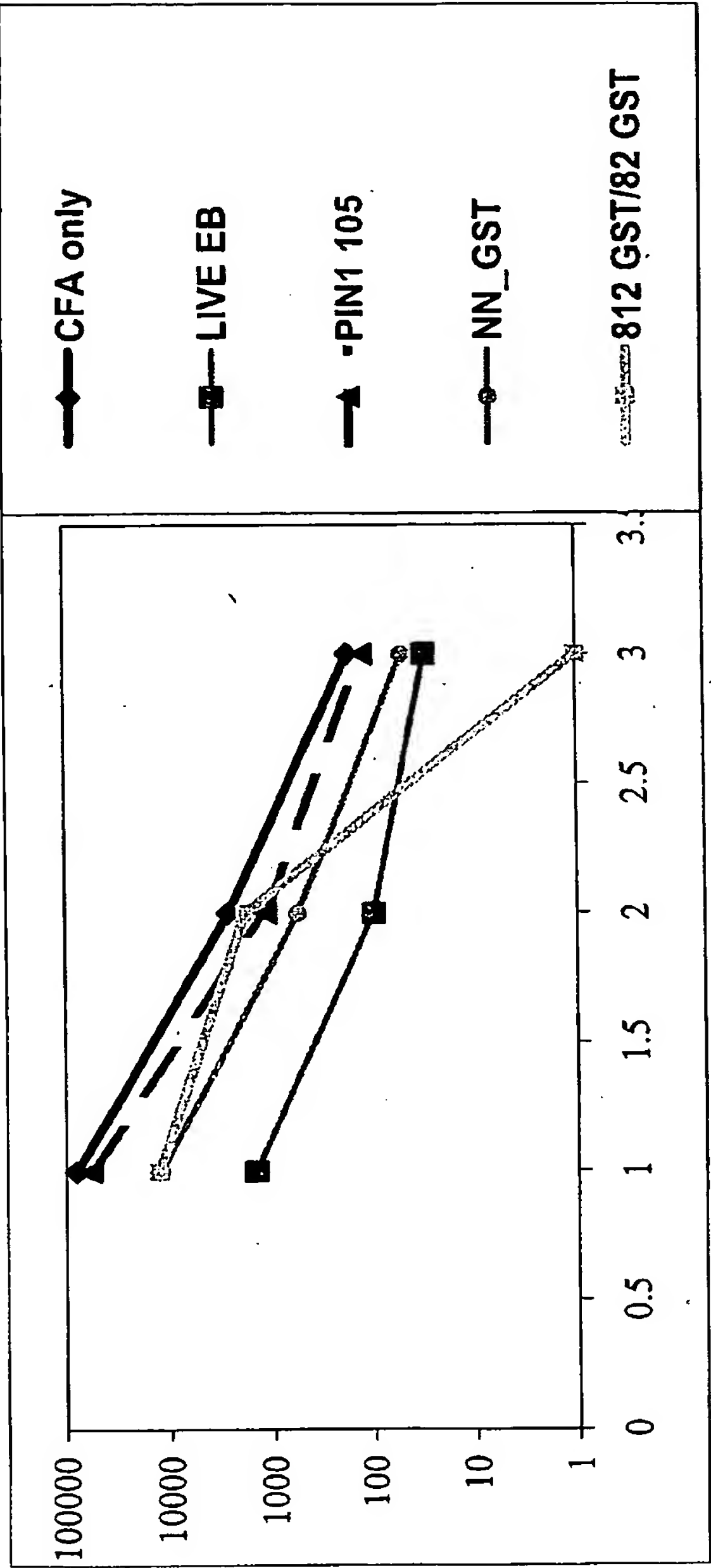


Figure 6



812-082
PmpD-Hyp.prot.

Figure 7(a)

Group	Day	Mean IFU/Swab	SD (Standard Deviation)	%IFU Reduction	P value
CFA only	7	4046	3200		
	14	1012	902		
	21	0	0		
live EB	7	50	73	99	0.07
	14	53	130	98	0.04
	21	00			
242+316 his	7	4740	3798	33	0.27
	14	127	178	87	0.02
	21	00			

Figure 7(b)

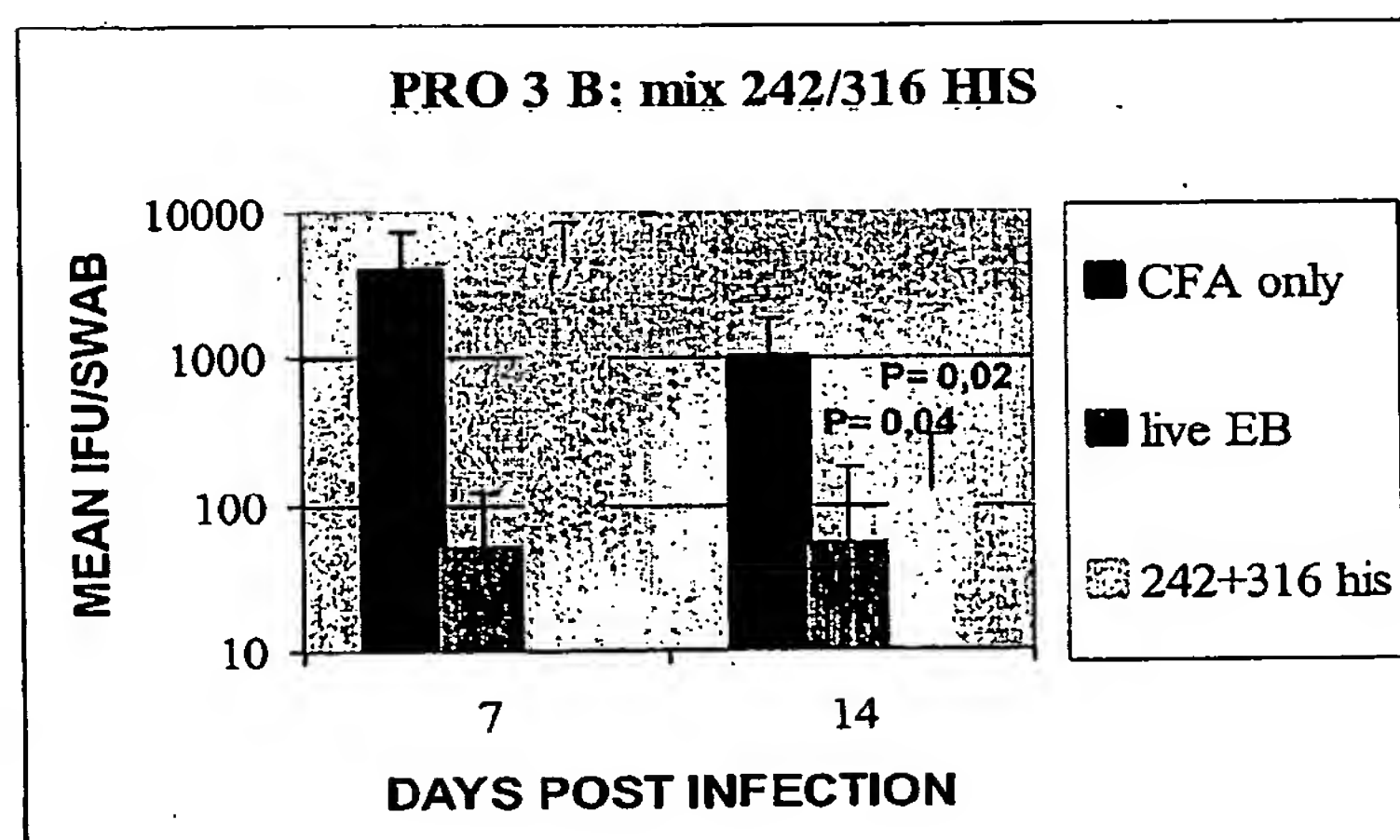


Figure 7(c)

BALB/c MICE						
CT antigen	ELISA		TITER		W.B on EBs	FACS K-S
	tot. IgG	IgG1	IgG2a			
242	24000	Not Determ	Not Determ	NC	15.5	01:50
316	10200	Not Determ	Not Determ	PC		

Figure 8(a)

GROUP	Mean IFU/swab	Standard Deviation	%Reduction
AlOH/CpG	2611	1631	
Live EBs	3	8	99
Mix5/AlOHCPG	93	140	96

Figure 8(a)

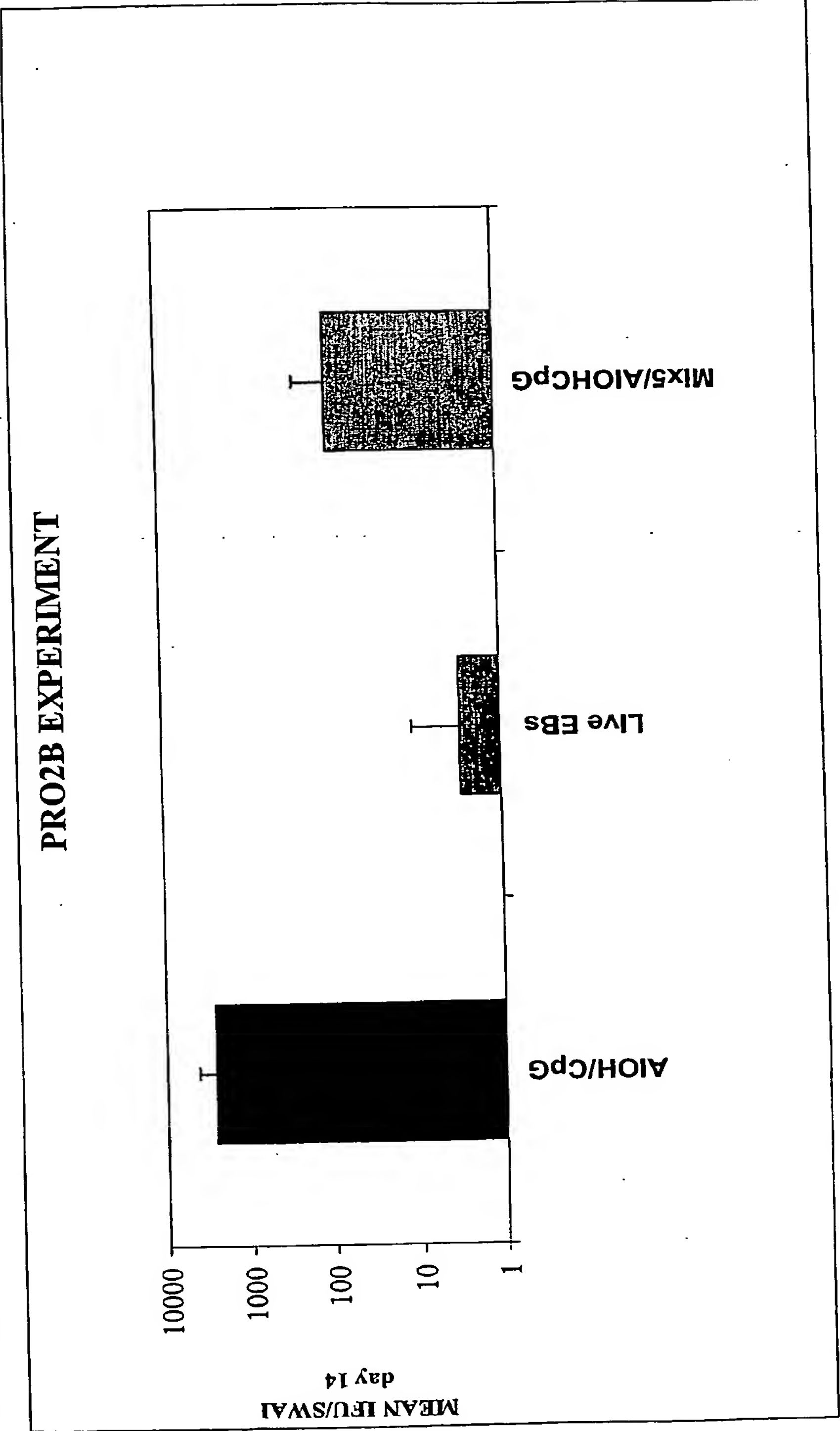


Figure 9(a)**REDUCTION OF INFECTION DATA FOR THE 5 ANTIGEN MIX****PRO 4 EXPERIMENT**

GROUP	DAYS POST INFECTION	Mean IFU/swab	SD	%Reduction of infection	P value
INFECTION	7	10112	5900		
	14	1048	1193		
	21	49	85		
Al/CpG	7	11810	10700		
	14	2460	2334		
	21	80	253		
CFA	7	6016	5475		
	14	920	2439		
	21	642	1912		
live EB	7	610	1764	95	0.002
	14	268	609	89	0.001
	21	0	0		
HIS +Al-CpG	7	12903	1067	NO RED.	
	14	4275	2677	NO RED.	
	21	807	1344		
45/89/396/398/381 HIS + Al-CpG	7	1668	1480	86	0.004
	14	555	909	77	0.02
	21	25	70	70	0.28

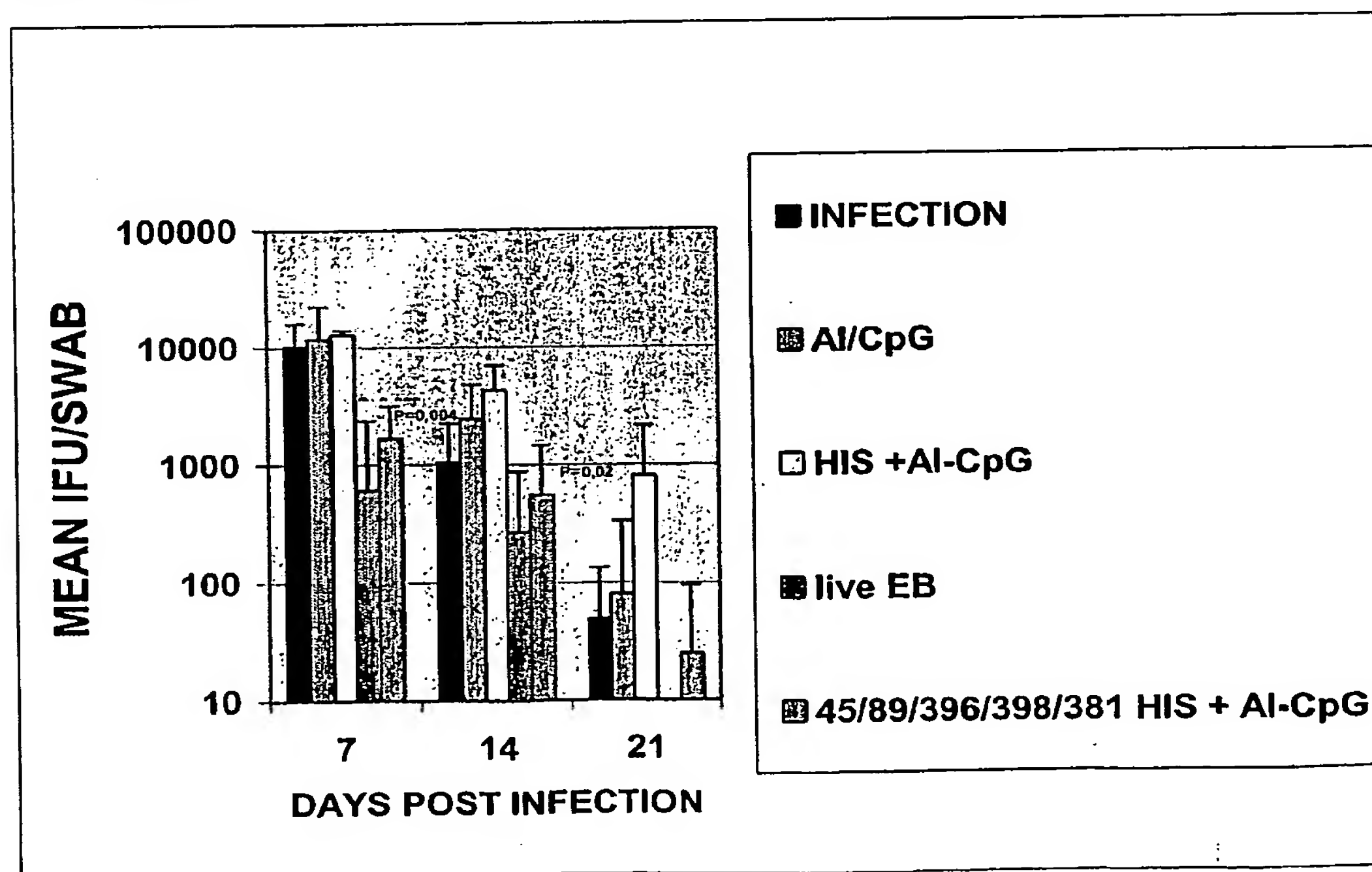
Figure 9(b)

Figure 9(c)

SEROLOGY DATA PRO 4 EXPERIMENT

BALB/c MICE							
CT antigen	ELISA		TITER		W.B on EBs	FACS K-S on Ebs	NEUT Titer
	tot. IgG	IgG1	IgG2a				
45 HIS	121103	319524	60939		P.C.	27.10	1:120
89 HIS	75309	268048	58123		P.C.		
396 HIS	98131	291254	90791		P.C.		
398 HIS	49545	315410	64370		P.C.		
381 HIS	12034	23624	2910		P.C.		

P.C.= partially consistent (a band of the expected M.W. is present together with additional bands of higher and/or lower M.W.)

Figure 10(a)**NEUTRALIZATION DATA FOR THE 5 ANTIGEN MIX**

antigen	mean titer	SD
LIVE EB	110	22
mix 5+ Al/CpG	120	36
NN-HIS+ Al/CpG	0	0
buffer+Al/CpG	0	0

Figure 10(b)